(Page 1 of 2)

## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-432-A Relating to Certification of New Motor Vehicles

#### GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health' and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
K1G3.1W8XGZ9	2.8/3.1 (173/191)	Air Injection - Pump (some models) Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Electronic Port Fuel Injection)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.39	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
	· ·	
0.18	1.7	0.4

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model—year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compilance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Mode! Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to ail applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this

4-0k day of March, 1988.

K. D. Drachand, Chief Mobile Source Division

# AIR RESOURCES BOARD HAAGENSMIT LABORATORY PSZE TELSTAR AVENUE F: "VITE, CA. 91731-2990 PSZE (818) 575-6800



March 4. 1988

TO: ALL PASSENGER CAR MANUFACTURERS
ALL LIGHT-DUTY TRUCK MANUFACTURERS
ALL MEDIUM-DUTY VEHICLE MANUFACTURERS
OTHER INTERESTED PARTIES

SUBJECT: Identification for Engine Family Which Contains Multiple Emission Standards

Historically, the Air Resources Board (ARB) has allowed light—duty trucks and medium—duty vehicles to certify to more than one set of emission standards in an engine family. This has made identification of the vehicle emission standards extremely difficult for administering enforcement testing and control of vehicles meeting the various standards within an engine family. Pursuant to CFR 86.088-30, the ARB is soliciting comments on a proposed Manufacturers Advisory Correspondence (MAC) to require separate engine families for each standards class with a phase—in period to allow alternate methods for one year.

Staff is currently considering various means (via tune-up label, bar code, or Vehicle Identification Number) by which vehicles from an engine family with more than one standard could be identified. The ARB requests that manufacturers who presently or will in the future plan on certifying one engine family to more than one emission standard submit written comments by April 1, 1988, regarding this issue. These comments could include:

- 1. The number of engine families involved.
- 2. The feasibility of splitting the engine families in to separate standards classes.
- 3. The validity of carryover/carryacross test data provisions to reduce certification costs if each engine family can only be used for one standards class.
- 4. Other ideas that would better accomplish the same objective.
- 5. Any other relevant information or comments that should be considered.

TO: ALL PASSENGER CAR MANUFACTURERS
ALL LIGHT-DUTY TRUCK MANUFACTURERS
ALL MEDIUM-DUTY VEHICLE MANUFACTURERS
OTHER INTERESTED PARTIES

Our initial discussion with the EPA and various manufacturers identified lead time and increased testing costs as the principle concerns. As an interim measure we have used separate Executive Order numbers for an engine family with multiple standards which are traceable to the tune-up label part numbers which contains the certification standards. We believe that by means of A/C 17-F, which is extensively used now, manufacturers will not incur a significant cost burden if the proposed MAC is adopted.

if you have any questions or would like to discuss this matter further, please contact Mr. R. J. Kenny, Manager, New Vehicle Certification Section, at (818) 575-6844.

Sincerely.

K. D. Drachand, Chief Mobile Source Division

Attachment

....... AUVISORY CORRESPONDENCE #88-

STATE OF CALIFORNIA—THE RESOURCES AGENCY

GEORGE DEUKMEHAN, Governor

AIR RESOURCES BOARD HAAGEN-SMIT LABORATORY 9378 TELSTAR AVENUE 6 40NTE, CA 91731-2990 i: (818) 575-6800





TO:

ALL PASSENGER CAR MANUFACTURERS

ALL LIGHT-DUTY TRUCK MANUFACTURERS

ALL MEDIUM-DUTY VEHICLE ENGINE MANUFACTURERS

ALL OTHER INTERESTED PARTIES

SUBJECT: Certification of Each Engine Family To Only One Set Of

Emission Standards

This letter transmits Manufacturers Advisory Correspondence #88- which conveys the Air Resources Board (ARB) requirements for 1990 and subsequent model-year passenger cars, light-duty trucks, and medium-duty vehicle to certify each engine family for one set of emission standards.

Any questions should be directed to Mr. R. J. Kenny, Manager, New Vehicle Certification Section, at (818) 575-6844.

Sincerely.

K. D. Drachand, Chief Mobile Source Division

Attachment

## State of California AIR RESOURCES BOARD

#### MANUFACTURERS ADVISORY CORRESPONDENCE #88-

Subject:

Certification regulations require that each engine family certify to only one set of emission standards.

Applicability: All 1990 and subsequent model-year Californiacertified passenger car, light-duty truck and medium-duty vehicle engine familles.

References:

- "California Exhaust Emission Standards and 1. Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles", adopted May 20, 1987.
- Subpart A, Part 86, Title 40, Code of Federal 2. Regulations (CFR), Section 86.088-30 Certification, incorporated by the above Test Procedures.

Background:

It has come to the attention of the ARB that not all manufacturers are following 40 CFR Sections 86.088-30(a)(3)(i)(A) (light-duty vehicles) and 86.088-30(a)(3)(i)(B) (light-duty truck and medium-duty vehicles). Section 86.088 was incorporated by reference in the California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, adopted May 20, 1987. These sections provide that only one certificate will be issued for each engine family. and each certificate will certify compliance to no more than one set of standards.

The ARB cannot effectively conduct in-use and new vehicle compilance testing when a single engine family is certified to more than one set of standards because of the difficulty in identifying to which set of standards a given vehicle is certified. This problem is eliminated when the manufacturer identifies a different engine family for each set of standards.

Policy:

The ARB will implement and apply the above regulations which require that each engine family for passenger cars, light-duty trucks, and mediumduty vehicles be certified to only one set of emission standards. The past policy of allowing a truck engine family to certify to any combination

# DRAFT

of T<sub>1</sub> (0-3750 ibs. loaded vehicle weight (LVW)), T<sub>2</sub> (3751-5750 ibs. LVW), and T<sub>3</sub> (5751 ibs. and larger LVW) will not be allowed since each class has a different set of emission standards. Also, the ARB will not allow one engine family to be certified to more than one NOx standard. This requirement for manufacturers to use different engine family identification for each emission standards class is consistent with and identical to federal regulations.

#### 17-K1G3.1W8XGZ9-1A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: A-6-432-A

Engine Family: KIG3.1W8XGZ9

Evaporative Family: KBO-1L

Engine Displacement Liters (Cubic Inches) - Type: 2.8 (173)/3.1 (191)-V6

Exhaust Emission Control System (Special Features): EGR-TWC-OS (EPFI)

AIP-EGR-TWC-OS (EPFI) (1)

### ABBREVIATIONS:

Ignition System CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard

Fuel System CFI,DID,DIP,EPFI,HOS,MPFI,OS,SFI nV-nVenturi Carburetor VV-Variable Venturi

Other Abbreviations A/C-Air Conditioning CID Cubic Inch Displacement ETW-Equivalent Test Weight FC-Forward Control HD-Heavy Duty RI-Rail & Injector RWD-Rear Wheel Drive FWD-Front Wheel Drive 4WD-Four Wheel Drive TBI-Throttle Body Injection 4x2-Two Wheel Drive 4x4-Four Wheel Drive 6x4-Four Wheel Drive

Exhaust Emission Control System AIP-Air Injection Pump AIV-Air Injection Valve EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control (Diesel Only) EM-Engine Modification DBC-Dual Bed Catalyst HOS-Heated Oxygen Sensor OC-Oxidation Catalyst OS-Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TMC-Three-Way Catalyst MUOC-Warm-up Oxidation Catalyst **WUTHC-Warm-up** Three-Way Catalyst

Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber EPFI-Electronic Port Fuel Injection IC-Intercooler/Aftercooler MPFI-Mechanical Port Fuel Injection OBD-On-Board Diagnostics SC-Supercharger SFI-Sequential Fuel Injection TC-Turbocharger

(1) AIP applies only to A. W and F car lines with manual transmission.

ISSUED: 02-02-88

REV. NO.: 001

01907/117

# 17-K1G3.1W8XGZ9-Index 1A

# (For CARB Use Only)

(1989)

# SECTION 17

# C-P-C SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

Section and Page No.	Rev. No. <u>or Date</u>	Item
17-K1G3.1W8XGZ9-Index 1A 17-K1G3.1W8XGZ9-Index 2A	011	Table of Contents
17-K1G3.1W8XGZ9-1A	001	Supplemental Data Sheet
17-K1G3.1W8XGZ9-2A	001	Supplemental Data Sheet
17-K1G3.1W8XGZ9-3A	011	Supplemental Data Sheet
17-K1G3.1W8XGZ9-4A	001	Supplemental Data Sheet
17-K1G3.1W8XGZ9-4.1A	011	Supplemental Data Sheet
17-K1G3.1W8XGZ9-5A	011	Supplemental Data Sheet
17-K1G3.1W8XGZ9-6A	001	Supplemental Data Sheet
17-K1G3.1W8XGZ9-7A	800	Supplemental Data Sheet
17-K1G3.1W8XGZ9-8A	002	Supplemental Data Sheet
17-K1G3.1W8XGZ9-9A	001	Certification Review Sheet
17-K1G3.1W8XGZ9-10A	010	Certification Review Sheet
17-K1G3.1W8XGZ9-11A	001	Supplemental Data Sheet
17-K1G3.1W8XGZ9-12A	001	Supplemental Data Sheet
17-K1G3.1W8XGZ9-13A	011	Supplemental Data Sheet
17-K1G3.1W8XGZ9-13.1A	010	Supplemental Data Sheet
17-K1G3.1W8XGZ9-14A	011	Supplemental Data Sheet
17-K1G3.1W8XGZ9-14.1A	011	Supplemental Data Sheet
17-K1G3.1W8XGZ9-15A	001	Certification Review Sheet
17-K1G3.1W8XGZ9-16A	010	Certification Review Sheet

## NOTES:

- (1) See page one for abbreviations and family information.
- (2) Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment.
- (3) If two test weights are listed, the lower weight will be used for testing.
- (4) Letter derivative codes are the same as corresponding numeric codes except as indicated.

ISSUED:	02-02-88	REV. NO.:	002 (RC K1-026) 003 (RC K1-023) 004 005	007 (RC K1-074) 008 (Corr RC K1-074) 009 (RC K1-081) 010 (RC K1-090) 011 (RC K1-097)
			006	

#### 17-K1G3.1W8XGZ9-2A

(For CARB Use Only) (1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

Executive Order No. A-6-432-A

#### VEHICLE MODELS:

## 1 J U 2 7 (EXAMPLE)

# Digit 1 Selling Division

# A-Celebrity, 6000, Cutlass Ciera, Cutlass Cruiser, Century

1-Chevrolet 2-Pontiac 3-Oldsmobile 4-Buick 6-Cadillac

B-Caprice, Safari Wagon, Custom Cruiser, LeSabre/Electra Wagon C-Ninety-Eight Regency, Electra, DeVille, Fleetwood, Limousine D-Brougham E-Toronado, Riviera, Eldorado, Reatta F-Camaro, Firebird, Trans Am, Formula

F-Camaro, Firebird, Trans Am, Formula G-Monte Carlo, El Camino, Caballero H-Bonneville, Delta 88 Royale, LeSabre J-Cavalier, Sunbird, Firenza, Skyhawk, Cimarron K-Seville

L-Corsica, Beretta

N-Grand Am, Calais, Somerset/Skylark

P-Fiero T-Lemans V-Allante

W-Grand Prix, Regal, Cutlass Supreme

Y-Corvette

Z-Commercial Chassis

# Digit 3 Trim <u>Level</u>

# Digits 4 & 5 - Body Style

07-2Dr	Sport Coupe
08-2Dr	Hatchback Coupe
11-2Dr	Notchback Coupe/Sedan
19-4Dr	Sedan
23-4Dr	Auxiliary Seat Sedan
27-2Dr	(Notchback) Coupe
33-4Dr	Auxiliary Seat Sedan
35-4Dr	Station Wagon
37-2Dr	Hardtop Coupe

47-2Dr Hardtop Coupe 57-2Dr Hardtop Coupe 67-2Dr Convertible Coupe 68-4Dr Hatchback Sedan 69-4Dr (Notchback) Sedan 77-2Dr Hatchback Coupe 80-2Dr Sedan Pickup 87-2Dr Hatchback Coupe 90-Commercial Chassis 97-2Dr Hardtop Coupe

Engine: Front

Drive: FWD

ISSUED: 02-02-88

REV. NO.: 001

01907/117

# 17-K1G3.1W8XGZ9-3A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_\_ GAS\_X DIESEL\_\_\_

Liters (CID): 2.8 (173) Type: V6 (RPO:LB6) Executive Order No. A-6-432-A

NX Std: 0.7 Exh Emiss Cont Sys: AIP-EGR-TWC-OS (EPFI)

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (EPFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
53	1AW19 1AW27 2AJ69	<b>M</b> 5	3250	16076891	17087247	17087105	25104584	DBB
	1AW35 2AJ35 2AH69		3375					
65	2WJ37 2WK37 3WH47			16070091			25104596	DBF
•	3WS47 2WP37 3WR47		3500					
65A				16125761, 16132551				
65E				16134691				

ISSUED: 02-02-88

REV. NO.: 001

010 011

003 005

006

009

# 17-K1G3.1W8XGZ9-4A

# (For CARB Use Only)

# (1989)

## AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X\_ LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_ GAS\_X\_ DIESEL\_

Liters (CID): 2.8 (173)

Type: V6 (RPO:LB6)

Executive Order No. A-6-432-A

NX Std: 0.7

Exh Emiss Cont Sys: EGR-TMC-OS (EPFI)

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (EPFI) PART_NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
74	1LV37 1LW37 1LT68 1LT69 1LZ69	<b>M</b> 5	3125	16076971	17087247	17087105	25104588	AXY
83	1JC35 6JG69		3000 3125	16077061			25104590	AYY
84	1JF37 1JF67		3000				25104592	

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 02-02-88

REV. NO.: 001

# 17-K1G3.1W8XGZ9-4.1A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_ GAS\_X DIESEL\_\_

Liters (CID): 2.8 (173)

Type: V6 (RPO:LB6) Executive Order No. A-6-432-A

NX Std: 0.7

Exh Emiss Cont Sys: EGR-TWC-OS (EPFI)

ENG C	ODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (EPFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
74.		1LV37 1LW37 1LT68 1LT69 1LZ69	M5	3125	16125691, 16132521	17087247	17087105	25104588	AXY
74	E				16134661				
83	A	1JC35 6JG69		3000 3125	16125731, 16132461			25104590	AYY
83	E				16134621				
84	A	1JF37 1JF67		3000	16125731, 16132461			25104592	
84	Ε				16134621				

ISSUED: 003

REV. NO.: 009

010

011

# 17-K1G3.1W8XGZ9-5A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_\_ GAS\_X DIESEL\_\_\_

Liters (CID): 3.1 (191)

Type: V6 (RPO:LHO) Executive Order No. A-6-432-A

NX Std: 0.7

Exh Emiss Cont Sys: EGR-TWC-OS (EPFI)

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (EPFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
66	2WJ37 2WK37 3WH47 3WS47 4WB57 4WD57 2WP37 3WR47	A4	3500 3625	16120272, 16132581	17087247	17087106	25104596	AYC
66E				16134721				

ISSUED: 02-02-88

REV. NO.: 001

009

011

# 17-K1G3.1W8XGZ9-6A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X LIGHT DUTY TRUCKS\_\_\_

MEDIUM DUTY VEHICLES\_\_\_ GAS\_X

DIESEL

Liters (CID): 3.1 (191)

Type: V6 (RPO:LHO)

Executive Order No. A-6-432-A

NX Std: 0.7

Exh Emiss Cont Sys: AIP-EGR-TWC-OS (EPFI)

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART_NO.	FUEL SYSTEM (EPFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
67	2WJ37 2WK37 3WH47 3WS47 2WP37 3WR47	M5	3375 3500	16120231	17087247	17087105	25104596	AYB

See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for Comments: testing.

ISSUED: 02-02-88

REV. NO.: 001

01907/117

# 17-K1G3.1W8XGZ9-7A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_ GAS\_X DIESEL\_\_

Liters (CID): 2.8 (173)

Type: V6 (RPO:LB8) Executive Order No. A-6-432-A

NX Std: 0.7

Exh Emiss Cont Sys: EGR-TWC-OS (EPFI)

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (EPFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
91	1FP87	<b>A</b> 4	3500	16087171	17089015, 17085039	17085913	25104586	DBT
91C				16130521				
92	2FS87			16087181				DBU
92C				16130521				

ISSUED: 02-02-88

REV. NO.: 001

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## 17-K1G3.1W8XGZ9-8A

# (For CARB Use Only)

(1989)

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS\_X\_ LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_\_ GAS\_X\_ DIESEL\_\_\_

Liters (CID): 2.8 (173)

Type: V6 (RPO:LB8)

Executive Order No. A-6-432-A

NX Std: 0.7

Exh Emiss Cont Sys: AIP-EGR-TWC-OS (EPFI)

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (EPFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.	TLC
93	1FP87	M5	3375	16053011	17089015, 17085039	17085914	25104586	DBR
94	2FS87		3500	16053431				DBS

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 02-02-88

REV. NO.: 001

002